

89/882,634

Set	Items	Description
S1	142779	DATA() (SYSTEM? OR SET OR SETS OR ELEMENT? OR OBJECT?) OR DATASET? OR DATASYSTEM? OR (SQL OR STRUCTUR?()QUER? OR QUER?()- LANGUAG?) () (SET OR SYSTEM? OR SETS OR ELEMENT? OR OBJECT?) OR DOCUMENT? OR DTD
S2	2059646	TRANSLAT? OR CONVERT? OR CONVERSION? OR MODIF? OR ADAPT? OR TRANSFORM?
S3	166276	NEUTRAL? OR UNCOMMIT? OR UNDEFIN? OR INDEFIN? OR INDISTINCT? OR UNDISTING?
S4	38	SOURCE(3N)SCHEMA? ?
S5	185	(TARGET? OR ANOTHER? OR XML OR EXTENSIB?() (MARKUP OR MARK(-) UP OR DIFFERENT?) () LANGUAG?) (3N)SCHEMA? ?
S6	90195	(RELAT? OR MAP OR MAPS OR MAPPED OR MAPPING) (3N) (INSTRUCTION? OR INFORMATION? OR RULE? OR SCHEMA? ? OR GRAMMAR? OR SPECIFIC? OR PROGRAM?)
S7	7807	(QUEUE? OR QUEUING OR COMPIL? OR PERSIST?) (7N) (STORE? OR STORAG? OR BUFFER? OR CACHE? OR CACHING? OR MEMOR?)
S8	469748	WAN OR NETWORK? OR ETHERNET? OR INTRANET? OR INTERNET? OR WANS
S9	2365619	SEND? OR SENT OR TRANSMIT? OR TRANSMIS? OR RELAY? OR OUTGOING?
S10	3896	JAVA? OR JSP OR JSPS
S11	3362	XML OR EXTENSIB?() (MARKUP OR MARK()UP) () LANGUAG?
S12	1021123	BRIDG? OR GATEWAY? OR LINK? OR CONCATENAT? OR INTERFAC? OR COMMUNICAT?()BETWEEN
S13	1212570	IC=G06F?
S14	893726	MC=T01?
S15	2055	(S2 OR S12) AND S1 AND (S3:S6 OR S11)
S16	1867	S15 AND S13:S14
S17	2055	S15:S16
S18	28	S17 AND (SQL OR STRUCTUR?()QUER?)
S19	816	S17 AND (XML OR EXTENSIB?() (MARKUP OR MARK()UP))
S20	22	S18 AND S19
S21	0	S20 AND S10
S22	22	S20:S21
S23	0	S18 AND S10
S24	52	S17 AND S10
S25	374	S18:S19 AND S7:S9
S26	371	S25 AND S10:S11
S27	371	S26 AND S1
S28	35	S27 AND S3:S6
S29	112	S18 OR S20:S24 OR S28
S30	819101	PR=2002:2005
S31	96	S29 NOT S30
S32	96	IDPAT (sorted in duplicate/non-duplicate order)

? show files

File 347:JAPIO Nov 1976-2005/Feb(Updated 050606)

(c) 2005 JPO & JAPIO

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200538

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?

32/3,K/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

016787304 **Image available**
WPI Acc No: 2005-111580/200512
Related WPI Acc No: 2005-009928; 2005-131429
XRPX Acc No: N05-096440

Mapping tool graphical user interface for use in electronic document translation , allows user to create mapping between source and target objects using graphical mapping indicia

Patent Assignee: MICROSOFT CORP (MICT)
Inventor: BHANDARKAR A G; SHUKLA D K; TAYLOR W R; VEDULA N P
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20050015732	A1	20050120	US 2000662396	A	20000914	200512 B
			US 2004920867	A	20040818	

Priority Applications (No Type Date): US 2000662396 A 20000914; US 2004920867 A 20040818

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20050015732	A1	49	G09G-005/00	Cont of application US 2000662396 Cont of patent US 6823495

Mapping tool graphical user interface for use in electronic document translation , allows user to create mapping between source and target objects using graphical mapping indicia

Abstract (Basic):

... For use in electronic document translations like business XML documents used in various internet applications such as business-business (B2B) e-commerce...

...Enables a user to graphically construct a translation mapping between source and target schema, without requiring a user to generate translational script or code. Enables business personnel to efficiently generate document mappings without extensive knowledge of programming languages or the assistance of the programmers...

...The figure shows a front elevation of the mapping tool graphical user interface .

...mapping tool graphical user interface (2

...Title Terms: INTERFACE ;

International Patent Class (Additional): G06F-009/44 ...

... G06F-009/54

Manual Codes (EPI/S-X): T01-J11C1 ...

... T01-N03B2A

TWO
RELATED
DOCS.
BENTATH



US 20050015732A1

(19) **United States**(12) **Patent Application Publication**

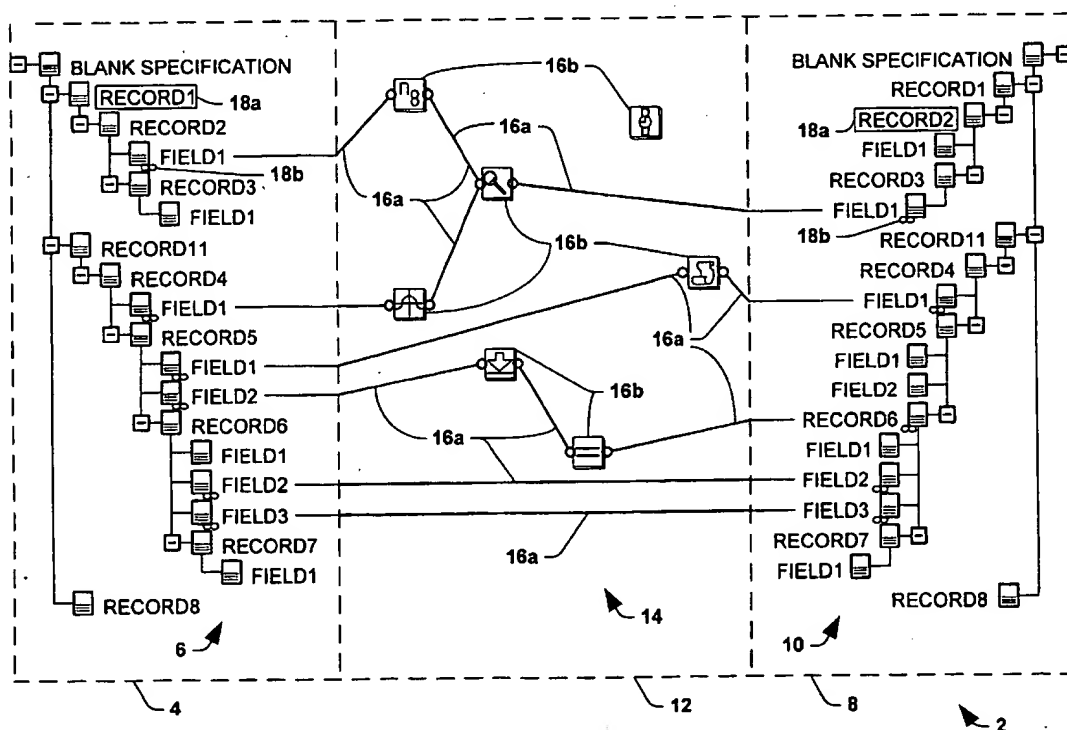
Vedula et al.

(10) Pub. No.: **US 2005/0015732 A1**(43) Pub. Date: **Jan. 20, 2005**(54) **MAPPING TOOL GRAPHICAL USER INTERFACE**(52) U.S. Cl. 715/805; 715/853; 715/810;
715/763; 717/109; 717/125;
719/329(75) Inventors: **Nagender P. Vedula**, Bothell, WA (US); **Aditya G. Bhandarkar**, Bellevue, WA (US); **Dharma K. Shukla**, Bellevue, WA (US); **William R. Taylor**, Kirkland, WA (US)Correspondence Address:
AMIN & TUROCY, LLP
24TH FLOOR, NATIONAL CITY CENTER
1900 EAST NINTH STREET
CLEVELAND, OH 44114 (US)(73) Assignee: **Microsoft Corporation**, Redmond, WA(21) Appl. No.: **10/920,867**(22) Filed: **Aug. 18, 2004****Related U.S. Application Data**

(63) Continuation of application No. 09/662,396, filed on Sep. 14, 2000, now Pat. No. 6,823,495.

Publication Classification(51) Int. Cl.⁷ **G09G 5/00; G06F 9/44; G06F 9/54**(57) **ABSTRACT**

A graphical user interface and method for creating a mapping between a source object and a destination or target object are provided. The user interface includes a source screen region which displays a graphical representation of a source object, a target screen region which displays a graphical representation of a target object, and a mapping screen region which allows a user to create a mapping between the graphical representation of the source object and the graphical representation of the target object using graphical mapping indicia. The methodology includes displaying a graphical representation of a source object in a source screen region, displaying a graphical representation of a target object in a target screen region, creating a mapping between the graphical representation of the source object and the graphical representation of the target object in a mapping screen region using graphical mapping indicia, and displaying the mapping in the mapping screen region. The source and target objects may be schemas, spreadsheets, documents, databases, or other information sources, and the graphical mapping indicia may include link indicia and/or function objects linking nodes in the target object with nodes in the source object. The mapping may be compiled into code used by a runtime engine to translate source documents into target documents.





US006823495B1

(12) **United States Patent**
Vedula et al.

(10) Patent No.: **US 6,823,495 B1**
(45) Date of Patent: **Nov. 23, 2004**

(54) **MAPPING TOOL GRAPHICAL USER INTERFACE**

(75) Inventors: Nagender P. Vedula, Bothell, WA (US); Aditya G. Bhandarkar, Bellevue, WA (US); Dharma K. Shukla, Bellevue, WA (US); William R. Taylor, Kirkland, WA (US)

(73) Assignee: Microsoft Corporation, Redmond, WA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 521 days.

(21) Appl. No.: 09/662,396

(22) Filed: Sep. 14, 2000

(51) Int. Cl.⁷ G09G 5/00; G06F 9/44

(52) U.S. Cl. 715/805; 715/853; 715/810; 715/763; 717/109; 717/125; 719/329

(58) Field of Search 345/746, 763, 345/967, 853, 810, 823, 805; 717/109, 113, 102, 105, 136, 162, 124, 125; 707/4; 719/329

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6,356,901 B1 * 3/2002 Kiernan et al.
6,564,368 B1 * 5/2003 House et al.

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Acrobat Reader. Adobe Systems Incorporated. Copyright 1987-1999.*

Rubeking, Neil J. Delphi For Dummies. IDG Books. Foster City, CA. 1997. pp 9-24, 329-342.*

* cited by examiner

Primary Examiner—Raymond J. Bayerl

Assistant Examiner—Blaine Basom

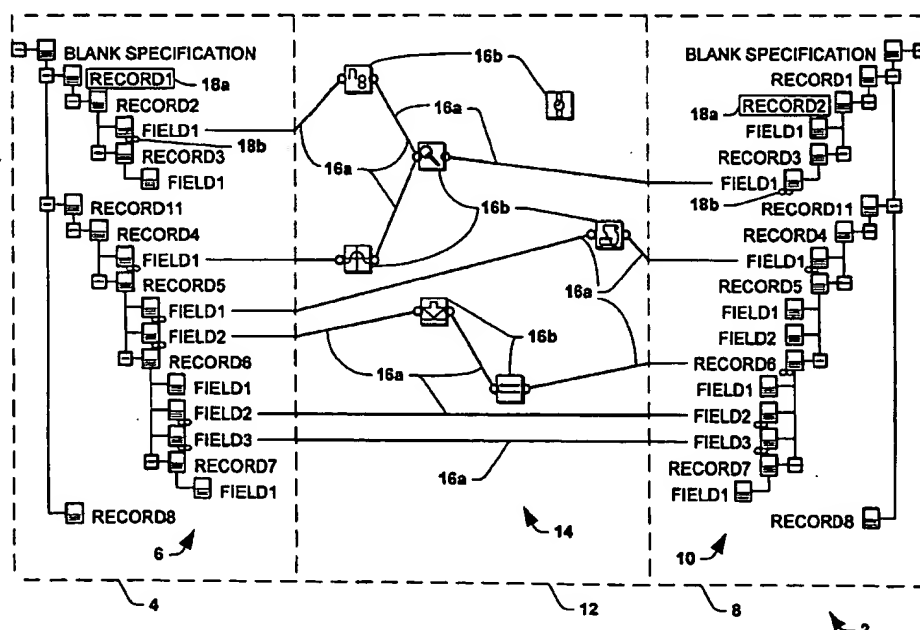
(74) Attorney, Agent, or Firm—Amin & Turocy, LLP

(57)

ABSTRACT

A graphical user interface and method for creating a mapping between a source object and a destination or target object are provided. The user interface includes a source screen region which displays a graphical representation of a source object, a target screen region which displays a graphical representation of a target object, and a mapping screen region which allows a user to create a mapping between the graphical representation of the source object and the graphical representation of the target object using graphical mapping indicia. The methodology includes displaying a graphical representation of a source object in a source screen region, displaying a graphical representation of a target object in a target screen region, creating a mapping between the graphical representation of the source object and the graphical representation of the target object in a mapping screen region using graphical mapping indicia, and displaying the mapping in the mapping screen region. The source and target objects may be schemas, spreadsheets, documents, databases, or other information sources, and the graphical mapping indicia may include link indicia and/or function objects linking nodes in the target object with nodes in the source object. The mapping may be compiled into code used by a runtime engine to translate source documents into target documents.

47 Claims, 35 Drawing Sheets



32/3,K/29 (Item 29 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015997805 **Image available**
WPI Acc No: 2004-155655/200415
XRPX Acc No: N04-124562

Information exchange between computers with incompatible platforms,
involves receiving request for information located on computer from
another computer with different platform, and translating request to
XML format

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MUNIZ A M (MUNI-I); SHARMA N (SHAR-I); TORAASON D H (TORA-I)
Inventor: ARELLANO-PAYNE A M; BANERJEE S; BENSON B A; BHARTI H; GOKHALE A H
; HILES L; MUNIZ A M; SHARMA N; TORAASON D H
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
US 20040015891 A1 20040122 US 2001280806 P 20010402 200415 B
US 20018831 A 20011113

Priority Applications (No Type Date): US 2001280806 P 20010402; US 20018831
A 20011113

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 20040015891 A1 15 G06F-009/45 Provisional application US 2001280806
... involves receiving request for information located on computer from
another computer with different platform, and translating request to
XML format

Abstract (Basic):

... A request for information located on request receiving computer
with specific platform e.g. **Java** platform, is originated from
computer with different platform. The request is **translated** into
extensible markup language (XML) format and transmitted to the
request receiving computer. The request in **XML** format is again
translated into a format readable by request receiving computer.
... 1) sharing **data system** ; and...

...2) data **translation** method...

...Information service (IIS)/NT/component object mode (COM) platform and
websphere application server (WAS)/SUN/ **JAVA** platform of computing
device such as cellular phone, personal digital assistant (PDA),
handheld computer, mainframe...

...Title Terms: **TRANSLATION** ;

International Patent Class (Main): **G06F-009/45**

International Patent Class (Additional): **G06F-015/16**

Manual Codes (EPI/S-X): **T01-F05A** ...

... **T01-M06A1A** ...

... **T01-N01A2A** ...

... **T01-N01D** ...

... **T01-N03B2**

RELATED
Doc.
BENZATH



US 20040015891A1

(19) **United States**(12) **Patent Application Publication** (10) Pub. No.: US 2004/0015891 A1
Arellano-Payne et al. (43) Pub. Date: Jan. 22, 2004(54) **SYSTEM AND METHOD FOR AN
INTEROPERABILITY FRAMEWORK****Related U.S. Application Data**

(60) Provisional application No. 60/280,806, filed on Apr. 2, 2001.

(76) Inventors: Anna M. Arellano-Payne, Anthem, AZ
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Bharti, Phoenix, AZ (US); Linda
Hiles, Wilton Manors, FL (US);
Supratim Banerjee, Boca Raton, FL
(US); Ana M. Muniz, Pembroke Pines,
FL (US); Blake A. Benson, Phoenix,
AZ (US)**Publication Classification**(51) Int. Cl.⁷ G06F 9/45; G06F 15/16

(52) U.S. Cl. 717/137; 709/246

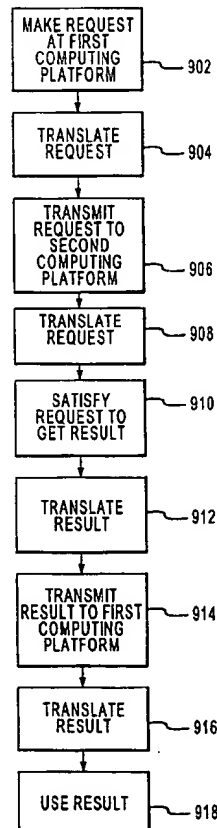
(57) **ABSTRACT**

An embodiment of the present invention is a consolidated package for diverse platforms to interoperate and transfer data. It allows otherwise incompatible systems to communicate with each other, exchange information, and otherwise interact. An embodiment of the present invention translates requests for information into a predetermined format that can be transmitted from a first platform to a second platform. One embodiment may transfer the information in an XML format over the Internet using HTTP or HTTPS. The receiving computer translates the XML stream into a properly formatted request and finds the requested information. The requested information is translated into an XML stream and transmitted over the Internet using HTTPS. The information is then translated into a format that the requesting computer can use. The system and method described herein can be used to exchange data between two computing systems.

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One Arizona Center
400 E. Van Buren
Phoenix, AZ 85004-2202 (US)

(21) Appl. No.: 10/008,831

(22) Filed: Nov. 13, 2001



32/3,K/30 (Item 30 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015997787 **Image available**
WPI Acc.No: 2004-155637/200415
XRPX Acc No: N04-124544

JAVA class processing method for producing XML document from JAVA class file, involves processing filed descriptors of loaded JAVA class, and transferring field values to new elements, when JAVA class implements predefined interface

Patent Assignee: AVAYA INC (AVAY-N)

Inventor: WALKER W J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040015840	A1	20040122	US 2001837929	A	20010419	200415 B

Priority Applications (No Type Date): US 2001837929 A 20010419

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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US 20040015840	A1	15	G06F-009/44	
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JAVA class processing method for producing XML document from JAVA class file, involves processing filed descriptors of loaded JAVA class, and transferring field values to new elements, when JAVA class implements predefined interface

Abstract (Basic):

... The field descriptor within loaded **JAVA** class is iteratively processed to retrieve corresponding **XML** tag, and field values are transferred to new elements created using **XML** tags, when the class implements application programming **interface** including parameters for **JAVA** class field, class file to be instantiated while creating class field, for identifying invoking and...

... 1) **XML** document processing method...

...2) **JAVA** object adapting method...

...3) application programming **interface** ; and...

...For processing **JAVA** class file to produce **XML** document .

...

...Enables instances of **JAVA** class objects to be **converted** to an **XML** representation and vice versa easily and efficiently...

...The figure shows a flowchart explaining **conversion** process of **XML** document to a **JAVA** class

...Title Terms: **DOCUMENT** ;

International Patent Class (Main): **G06F-009/44**

Manual Codes (EPI/S-X): **T01-F05A** ...

... **T01-F05G3** ...

... **T01-J20A** ...

... **T01-S03**

*Related
Doc.
BENSON*



US 20040015840A1

(19) **United States**(12) **Patent Application Publication**
Walker(10) **Pub. No.: US 2004/0015840 A1**(43) **Pub. Date: Jan. 22, 2004**(54) **MECHANISM FOR CONVERTING
BETWEEN JAVA CLASSES AND XML****Publication Classification**(51) **Int. Cl.⁷ G06F 9/44**(52) **U.S. Cl. 717/108; 717/114; 717/166**(75) **Inventor: William J. Walker, Red Bank, NJ (US)**

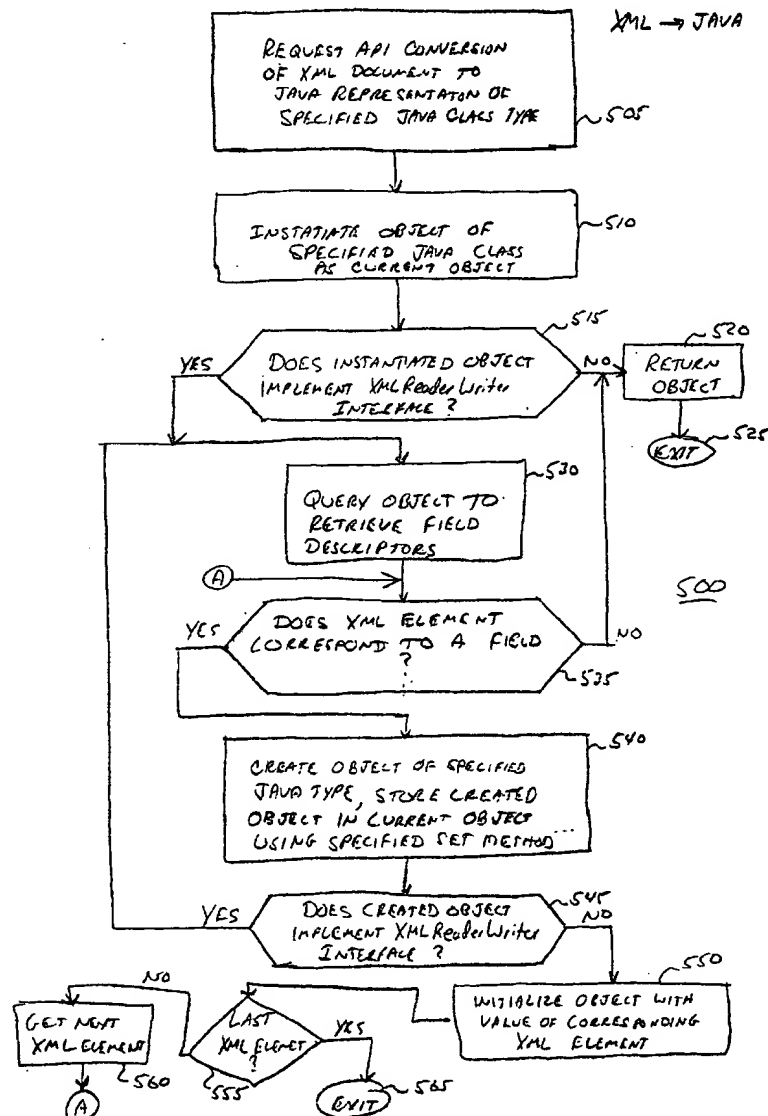
(57)

ABSTRACT

Correspondence Address:

**BIRCH STEWART KOLASCH & BIRCH
PO BOX 747
FALLS CHURCH, VA 22040-0747 (US)**

A method, applications programming interfaces (API), and mechanism for converting between JAVA classes and XML. In a file containing JAVA data representations, each JAVA class having elements to be converted to an XML representation is annotated in a manner enabling appropriate conversion processing by an API generating therefrom an XML file. The annotation enables instances of Java class objects to be converted to an XML representation and XML representations to be converted to Java class objects.

(73) **Assignee: Avaya, Inc.**(21) **Appl. No.: 09/837,929**(22) **Filed: Apr. 19, 2001**

32/3,K/32 (Item 32 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015814032 **Image available**
WPI Acc No: 2003-876236/200381
XRPX Acc No: N03-699752

Dynamic parsing method of structured document e.g. extensible mark - up language document , involves identifying parser extension for specified document type and generating parsed structured document
Patent Assignee: CHU-CARROLL M C (CHUC-I); KARASICK M (KARA-I); WEBER S M (WEBE-I)

Inventor: CHU-CARROLL M C; KARASICK M; WEBER S M
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030212686	A1	20031113	US 2000190428	P	20000317	200381 B
			US 2001753855	A	20010103	

Priority Applications (No Type Date): US 2000190428 P 20000317; US 2001753855 A 20010103

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030212686	A1	16	G06F-007/00	Provisional application US 2000190428

Dynamic parsing method of structured document e.g. extensible mark - up language document , involves identifying parser extension for specified document type and generating parsed structured document

Abstract (Basic):

... An **extensible mark - up language (XML) document** obtained from client query is classified based on the **document** types. A parser extension associated with the **document** type, is identified and the parser extension is invoked to produce parsed form of the **XML document** .

... 2) method for **linking** heterogeneous data structure...

...3) architecture **neutral** system...

...6) apparatus for dynamically parsing structured **document** ;
(...

...In electronic-commerce applications through computer data **network** , for dynamically parsing structured **documents** such as **extensible mark - up language (XML) document** , standard generalized mark-up language (SGML) **document** and list processor (Lisp) S-expression **document** , to generate heterogeneous data structure...

...The dynamic parsing of the structured **documents** provide easy accessing of data structures based on client queries, hence an uniform, extensibly query...

...The figure shows the virtual table structure of structured **documents** .

...Title Terms: **DOCUMENT** ;

International Patent Class (Main): **G06F-007/00**

Manual Codes (EPI/S-X): **T01-J11C1** ...

... **T01-J16C1** ...

... **T01-N01A2**

32/3,K/34 (Item 34 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015714440 **Image available**
WPI Acc No: 2003-776640/200373
Related WPI Acc No: 2002-518092
XRPX Acc No: N03-622269

Transaction protocol for encryption renewal system, converts response
Java object code to response transaction document in XML, and
forwards document to video-on-demand system

Patent Assignee: CHEN A O (CHEN-I); GEN INSTR CORP (GENN); CHUNG PANG SO
N (SONN-I); COCHRAN K R (COCH-I); OKIMOTO J (OKIM-I); ON-YEE CHEN A
(CHEN-I)

Inventor: CHEN A O; CHUNG PANG SO N; COCHRAN K R; OKIMOTO J I; TANG L W;
WAKABAYASHI A; ON-YEE CHEN A; OKIMOTO J

Number of Countries: 101 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020087971	A1	20020704	US 2000243925	P	20001026	200373 B
			US 2001263087	P	20010118	
			US 2001898172	A	20010703	
WO 200258398	A2	20020725	WO 2002US999	A	20020114	200373
WO 200305724	A2	20030116	WO 2002US20990	A	20020703	200373
EP 1354476	A2	20031022	EP 2002707471	A	20020114	200377
			WO 2002US999	A	20020114	
AU 2002241876	A1	20020730	AU 2002241876	A	20020114	200427
EP 1415472	A2	20040506	EP 2002752153	A	20020703	200430
			WO 2002US20990	A	20020703	
AU 2002354779	A1	20030121	AU 2002354779	A	20020703	200452

Priority Applications (No Type Date): US 2001898172 A 20010703; US
2000243925 P 20001026; US 2001263087 P 20010118; US 2001898184 A 20010703

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020087971	A1		21	H04N-007/167	Provisional application US 2000243925

Provisional application US 2001263087

WO 200258398 A2 E H04N-007/173

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU
ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

WO 200305724 A2 E H04N-007/173

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
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IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU
ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB
GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

EP 1354476 A2 E H04N-007/173 Based on patent WO 200258398

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

AU 2002241876 A1 H04N-007/173 Based on patent WO 200258398

EP 1415472 A2 E H04N-007/16 Based on patent WO 200305724

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

RELATED
Doc.
BENTON

Transaction protocol for encryption renewal system, converts response Java object code to response transaction document in XML, and forwards document to video-on-demand system

Abstract (Basic):

... The method involves retrieving data by parsing received request transaction document in XML. A response Java object code is generated, when request Java object code is generated based on retrieved data. A response Java object code is connected to response transaction document in XML and forwarded to video-on-demand system.

... Communication between encryption renewal system coupled to video-on-demand systems through network for delivering video content

...Title Terms: CONVERT ;

Manual Codes (EPI/S-X): T01-D01 ...

... T01-N01D

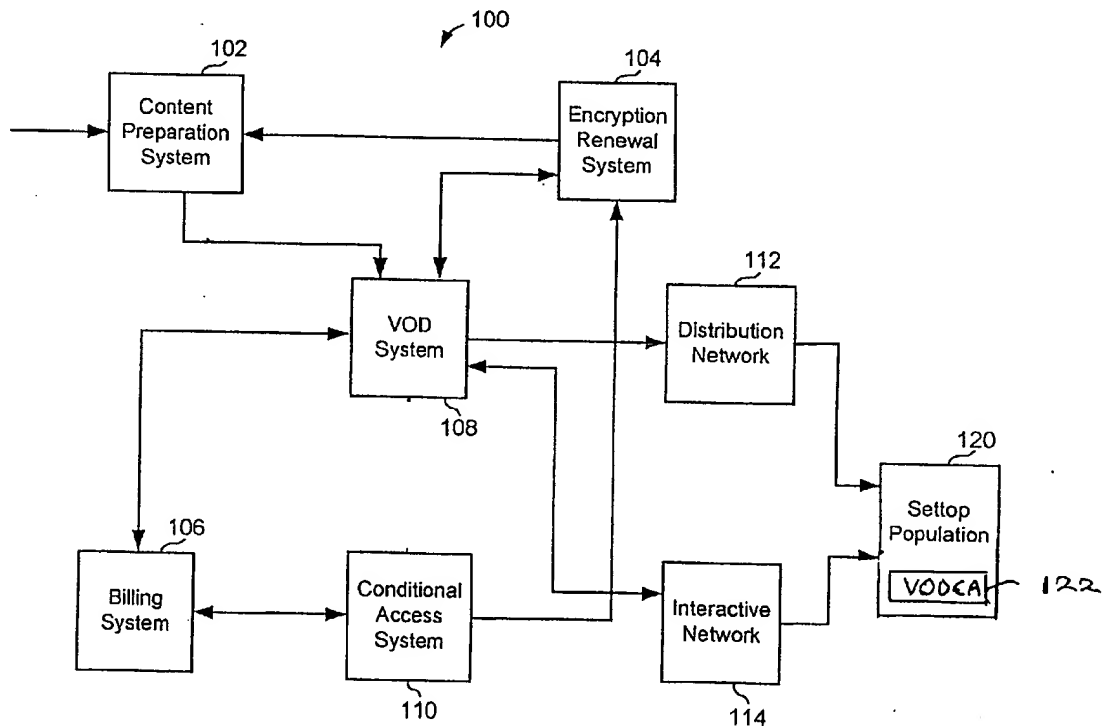


US 20020087971A1

(19) **United States**(12) **Patent Application Publication**
Cochran et al.(10) **Pub. No.: US 2002/0087971 A1**(43) **Pub. Date: Jul. 4, 2002**(54) **COMMUNICATION PROTOCOL FOR
CONTENT ON DEMAND SYSTEM WITH
CALLBACK TIME****Publication Classification**(51) **Int. Cl.⁷** **H04N 7/167; H04N 7/173**(52) **U.S. Cl.** **725/31; 725/87**(76) **Inventors: Keith R. Cochran, San Diego, CA
(US); John Okimoto, San Diego, CA
(US)**(57) **ABSTRACT**

Correspondence Address:
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EIGHTH FLOOR
SAN FRANCISCO, CA 94111-3834 (US)**

A transaction protocol for communicating between an encryption renewal system communicably coupled to one or more video on demand systems via a communication network. The encryption renewal system permits pre-encrypted content to be accessed by clients of the video on demand systems. The protocol comprises, receiving, by the encryption renewal system, a request transaction document having a first format from the video on demand system; parsing the request transaction document to retrieve data from the request transaction document; generating a request object code in a second format for processing by encryption renewal system, the request object code based on the data in the request transaction document; responsive to processing of the request object code, generating a response object code having the second format; converting the response object code to a response transaction document having the first format; and forwarding the response transaction document to the video on demand system.

(21) **Appl. No.: 09/898,172**(22) **Filed: Jul. 3, 2001****Related U.S. Application Data**(63) **Non-provisional of provisional application No. 60/263,087, filed on Jan. 18, 2001. Non-provisional of provisional application No. 60/243,925, filed on Oct. 26, 2000.**

32/3,K/35 (Item 35 from file: 350)

DIALOG(R)File 350:Derwent WPIX
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015657667 **Image available**

WPI Acc No: 2003-719852/200368

Related WPI Acc No: 2004-649379

XRPX Acc No: N03-575414

Relational data conversion for distributed object application, involves merging tuple stream with construction portion of executable query to generate structured document capable of defining nesting depth

Patent Assignee: AT & T CORP (AMTT)

Inventor: FERNANDEZ M F; SUCIU D; TAN W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6604100	B1	20030805	US 2000181400	P	20000209	200368 B
			US 2001778749	A	20010208	

Priority Applications (No Type Date): US 2000181400 P 20000209; US 2001778749 A 20010208

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6604100	B1	17	G06F-017/30	Provisional application US 2000181400

Relational data conversion for distributed object application, involves merging tuple stream with construction portion of executable query to generate structured document capable of defining nesting depth

Abstract (Basic):

... user queries, is partitioned into data extraction and construction portions. The data extraction portion is **transmitted** to a relational database based on which a tuple stream is received. The tuple stream and construction portion are merged to generate a structured **document** capable of defining arbitrary nesting depth.

... 1) computer readable medium storing **relational data conversion program** ;
.(...

...For **converting** relational data into **extensible markup language (XML)** for distributed object application and inter enterprise applications on **Internet** for healthcare and telecommunication groups
...

...Provides dynamic and efficient tool for viewing and querying relational data **converted** into **extensible markup language** and reduces the number of queries...

... **translator** (104...

... **XML** generator module (106...

... **Internet** (130

...Title Terms: **CONVERT** ;

International Patent Class (Main): **G06F-017/30**

Manual Codes (EPI/S-X): **T01-N03B2** ...

... **T01-S03**

32/3,K/42 (Item 42 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015572572 **Image available**
WPI Acc No: 2003-634729/200360
XRPX Acc No: N03-504781

Extensible markup language (XML) document data accessing method
involves automatically generating particular class definition data
corresponding to particular data node in XML document type definition
file for each identified data node

Patent Assignee: VIQUITY CORP (VIQU-N); JAIN S (JAIN-I); THAKUR S (THAK-I)
Inventor: JAIN S; THAKUR S

Number of Countries: 100 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020073091	A1	20020613	US 2000175138	P	20000107	200360 B
			US 2001755501	A	20010105	
WO 200263438	A2	20020815	WO 2002US90	A	20020104	200360
AU 2002251730	A1	20020819	AU 2002251730	A	20020104	200427

Priority Applications (No Type Date): US 2000175138 P 20000107; US
2001755501 A 20010105

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020073091	A1		28	G06F-007/00	Provisional application US 2000175138

WO 200263438 A2 E G06F-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA
ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

AU 2002251730 A1 G06F-007/00 Based on patent WO 200263438

Extensible markup language (XML) document data accessing method
involves automatically generating particular class definition data
corresponding to particular data node in XML document type definition
file for each identified data node

Abstract (Basic):

... The data nodes in XML document type definition file (104)
are identified by a translation tool (108). A particular class
definition data which corresponds to particular data node encompassing
all...

... An INDEPENDENT CLAIM is also included for recorded medium
storing XML document data accessing program...

...For accessing data stored in XML document to translate XML
document to Java object...

...Provides consistent, powerful and in-memory method for accessing the
data in the XML document, and thus interfacing the XML
document with the Java -based environment is made more flexible and
working with the document content is made more efficient...

...The figure shows the block diagram of the XML document data
accessing apparatus...

RELATED
DOC.
BENSAATH

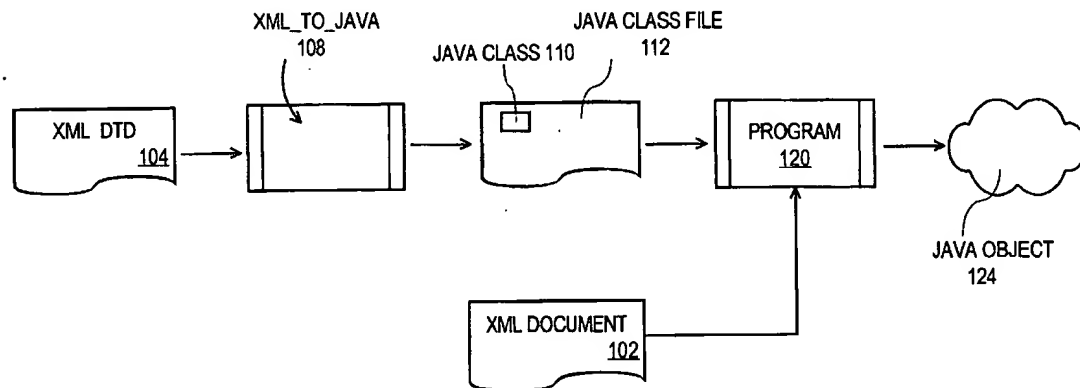
... XML document (102...
... XML document type definition file (104...
... translation tool (108...
... Java class (110...
... Java class file (112
...Title Terms: DOCUMENT ;
International Patent Class (Main): G06F-000/00 ...
... G06F-007/00
Manual Codes (EPI/S-X): T01-F05A ...
... T01-J11C1 ...
... T01-J14 ...
... T01-N03B2 ...
... T01-S03



US 20020073091A1

(19) **United States**(12) **Patent Application Publication**
Jain et al.(10) **Pub. No.: US 2002/0073091 A1**(43) **Pub. Date: Jun. 13, 2002**(54) **XML TO OBJECT TRANSLATION****Publication Classification**(76) **Inventors:** Sandeep Jain, Belmont, CA (US);
Sudheer Thakur, Belmont, CA (US)(51) **Int. Cl.⁷** **G06F 7/00**
(52) **U.S. Cl.** **707/100****Correspondence Address:**
Hickman Palermo Truong & Becker LLP
1600 Willow Street
San Jose, CA 95125-5106 (US)(57) **ABSTRACT**

Techniques are provided for accessing data stored in XML documents using objects defined in object-oriented languages, such as Java. In one embodiment, a translation tool identifies the data nodes in an XML DTD associated with an XML document. The translation tool converts each of the identified nodes to a corresponding Java class in which a top-level data node in the XML DTD corresponds to a top-level Java class. From the Java classes and data in the XML document, a Java object is instantiated. The Java object thus can be used to advantageously access the data in the XML document in the Java language domain.

(21) **Appl. No.: 09/755,501**(22) **Filed: Jan. 5, 2001****Related U.S. Application Data**(63) **Non-provisional of provisional application No.**
60/175,138, filed on Jan. 7, 2000.

32/3,K/44 (Item 44 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015449900 **Image available**
WPI Acc No: 2003-512042/200348
XRPX Acc No: N03-406334

Document **schemes** converting method for object-oriented computer system, involves generating class specifications from document schemes and instantiating Java object from generated class specifications

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: SUNDARESAN N

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6569207	B1	20030527	US 98166043	A	19981005	200348 B

Priority Applications (No Type Date): US 98166043 A 19981005

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6569207	B1	13	G06F-017/00	

Document **schemes** converting method for object-oriented computer system, involves generating class specifications from document schemes and instantiating Java object from generated class specifications

Abstract (Basic):

... The object-oriented class specifications are generated from **document** schemes in the computer system. The **Java** objects are instantiated from the generated object-oriented class specifications using data contained in the **documents** , which complies with **document** schemes.

... 1) apparatus for **converting document** schemes; and...

...2) computer program for **converting document** schemes...

...For **converting extensible markup language (XML)** schemes into component models in object-oriented computer system, to generate web content for use...

...Automatically generates **Java** classes using **XML** schemes and instantiates **Java** objects using **XML documents** . Thereby, the design data is utilized effectively...

...The figure shows the block diagram illustrating how a Beam Maker instantiates **Java** objects from **XML documents** using the **Java** class specifications...

Title Terms: **DOCUMENT** ;

International Patent Class (Main): G06F-017/00

Manual Codes (EPI/S-X): T01-D02 ...

... T01-F05A ...

... T01-F07 ...

... T01-N03B1 ...

... T01-N03B2 ...

... T01-S03

32/3,K/47 (Item 47 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015238056 **Image available**
WPI Acc No: 2003-298982/200329
XRPX Acc No: N03-237768

Extensible markup language document object model synchronizing
method in distributed network , involves creating software module to
transfer information to document object model nodes or corresponding
object model

Patent Assignee: BERG D (BERG-I); DECANDIO G P (DECA-I); RICH L S (RICH-I);
SCHACHER R L (SCHA-I); INT BUSINESS MACHINES CORP (IBMC)

Inventor: BERG D; DECANDIO G P; RICH L S; SCHACHER R L

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020184264	A1	20021205	US 2001870601	A	20010531	200329 B
US 6745208	B2	20040601	US 2001870601	A	20010531	200436

Priority Applications (No Type Date): US 2001870601 A 20010531

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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US 20020184264	A1	15	G06F-017/24	
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US 6745208	B2		G06F-017/30	
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Extensible markup language document object model synchronizing
method in distributed network , involves creating software module to
transfer information to document object model nodes or corresponding
object model

Abstract (Basic):

... A map of information objects for each nodes of document
object model (DOM) (14), is stored. The DOM/object model adapters
(16a-16c) connected between the corresponding object model (12) and
XML DOM, creates a software module to transfer the information objects
to one of them, when...

... 1) product for synchronizing XML document object model (DOM
...

...2) source version synchronizing method for XML DOM...

...For synchronizing hypertext markup language (HTML) document object
model (DOM) in distributed network such as Internet .

...Each adapter is capable of synchronizing in either direction, that is
it can reflect changes made in the DOM to the object model and vice
versa and each adapter is responsible for small portion of the
document , therefore each edit can be reflected between the object
model and DOM quickly without re-parsing or iterating over the entire
document . The portion of the document for which each adapter is
responsible should be selected, such that each adapter is relatively
simple...

...The figure shows the block of XML document object model synchronizer
...

... document object model (14...

... adapters (16a-16c

...Title Terms: DOCUMENT ;

International Patent Class (Main): G06F-017/24 ...

... G06F-017/30

International Patent Class (Additional): G06F-017/00

Manual Codes (EPI/S-X): T01-F07 ...

... T01-J05B1 ...

... T01-N02B1A ...

... T01-N03B2 ...

... T01-S03

32/3,K/51 (Item 51 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

015138908 **Image available**
WPI Acc No: 2003-199434/200319
XRPX Acc No: N03-158641

XML -enabled control and monitoring apparatus for PC, PDA, receives XML
formatted input information from remote computer, and parses received
information to determine encoded control action within input information
Patent Assignee: FREDERICK J W (FRED-I); HILL D H (HILL-I); HOUGLAND B
(HOUG-I); JOHNSON K (JOHN-I); KUHS K (KUHN-I)

Inventor: FREDERICK J W; HILL D H; HOUGLAND B; JOHNSON K; KUHS K

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020169825	A1	20021114	US 2001854186	A	20010511	200319 B

Priority Applications (No Type Date): US 2001854186 A 20010511

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020169825	A1	14	G06F-015/16	

XML -enabled control and monitoring apparatus for PC, PDA, receives XML
formatted input information from remote computer, and parses received
information to determine encoded control action...

Abstract (Basic):

... A network interface (116) receives XML -formatted input
information from a remote computer communicating with a monitoring
device (135C) such as PC. A parser coupled to the interface parses
the received information to determine a control action encoded within
the information.

... 1) XML -enabled control and monitoring method; and...

...2) Computer-readable medium for storing XML -enabled control and
monitoring program...

...monitoring and controlling personal computer (PC), personal digital
assistant (PDA), wireless phone and any other network computing
device, using extensible markup language (XML) formatted
information such as XML schema, document type definition (DTD)
or cascading style sheet (CSS...

...By receiving the XML -formatted control information, individual users
are allowed to control a device through an XML -enabled browser which
is highly user-friendly and the XML formatted data can be easily
imported into a remote computer database and efficiently parsed to...

...The figure shows the block diagram of the XML -enabled control and
monitoring apparatus...

... Network interface (116

International Patent Class (Main): G06F-015/16

Manual Codes (EPI/S-X): T01-F05G5 ...

... T01-J11C ...

... T01-N03B2 ...

... T01-S03

32/3,K/53 (Item 53 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015136521 **Image available**
WPI Acc No: 2003-197047/200319
XRPX Acc No: N03-156340

Extensible markup language document transforming method through
Internet, involves identifying annotations specified in prescribed name
space within XML document ; using dynamic processor

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: LEE S B; SUNDARESAN N

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6480865	B1	20021112	US 98166042	A	19981005	200319 B

Priority Applications (No Type Date): US 98166042 A 19981005

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6480865	B1	11	G06F-017/21	

Extensible markup language document transforming method through
Internet, involves identifying annotations specified in prescribed name
space within XML document , using dynamic processor

Abstract (Basic):

... The annotations specified in a name space within the document ,
are identified by a dynamic processor in a computer. The Java class
specifications and objects comprising the functions corresponding to
the identified annotations are invoked for transforming the XML
document to be processed by the XML processor.

... 1) XML document transform apparatus; and...

...2) Computer-readable medium storing program for transforming XML
document .

...

...For transforming XML document for Internet applications...

...Enables the XML processor to recognize the elements that are tagged
with dynamic XML - Java (DXMLJ) and prefix tags, easily and
efficiently, for improving the transforming efficiency of the XML
document .

...

...The figure shows the flowchart explaining XML document transforming
process

...Title Terms: DOCUMENT ;

International Patent Class (Main): G06F-017/21

Manual Codes (EPI/S-X): T01-F05A ...

... T01-F07 ...

... T01-N03B1 ...

... T01-N03B2 ...

... T01-S03

32/3,K/64 (Item 64 from file: 350).
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014891912 **Image available**
WPI Acc No: 2002-712618/200277
XRPX Acc No: N02-562147

XML document retrieval system has retrieval module which retrieves
general query and structured query input by user
Patent Assignee: ELECTRONICS & TELECOM RES INST (ELTE-N); CHA K (CHAK-I);
CHUNG E (CHUN-I); KANG H (KANG-I); WANG J (WANG-I); YUN B (YUNB-I)
Inventor: CHA G H; JUNG U S; KANG H G; WANG J H; YOON B H; CHA K; CHUNG E;
KANG H; WANG J; YUN B

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020120616	A1	20020829	US 2001836316	A	20010418	200277 B
KR 2002058639	A	20020712	KR 200086754	A	20001230	200306

Priority Applications (No Type Date): KR 200086754 A 20001230

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020120616	A1	10	G06F-017/30	
KR 2002058639	A		G06F-017/30	

XML document retrieval system has retrieval module which retrieves
general query and structured query input by user

Abstract (Basic):

... An index module (210) performs indexing of configuration file
(201) and XML document (202) input from a document type
definition (DTD) reduction module (200). An index information storage
module (230) stores the index information input from the index module.
A retrieval module (220) retrieves a general query and a structured
query input by a user.

... 1) XML document retrieval method; and...

...2) Computer-readable recorded medium storing information for performing
functions of converting general query and structure query .

...For retrieving XML , HTML, SGML documents .

...The XML document can be quickly retrieved with efficient indexing,
by unifying contents and structures of the documents .

...The figure shows the block diagram of the XML document retrieval
system...

... DTD reduction module (200...

... XML document (202

Title Terms: DOCUMENT ;

International Patent Class (Main): G06F-017/30

Manual Codes (EPI/S-X): T01-J05B1 ...

... T01-N01D2 ...

... T01-S03

32/3,K/65 (Item 65 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014877699 **Image available**
WPI Acc No: 2002-698405/200275
XRPX Acc No: N02-550803

**Customizable interface generation method for XML documents ,
involves passing components implementing specific input/output modes
generated from XML schema and user customization rules, to rendering
system**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: ROLLINS S N; SUNDARESAN N

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020129060	A1	20020912	US 2001799698	A	20010307	200275 B

Priority Applications (No Type Date): US 2001799698 A 20010307

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020129060	A1	18	G06F-015/00	

**Customizable interface generation method for XML documents ,
involves passing components implementing specific input/output modes
generated from XML schema and user customization rules, to rendering
system**

Abstract (Basic):

... components that implement specific input and output modes, are
generated through code generation from analyzed **XML schema** and user
customization rules. The generated components are passed to a rendering
system (412) that uses the input and output modes of the components to
navigate and **modify** an **XML document** (410).

... 1) Customizable **interface** generation system; and...

...2) Article of manufacture comprising medium storing **XML document**
customizable **interface** generation program...

...For generating multiple customizable **interfaces** for **XML document**
used for **Internet** , LAN, **WAN** , WWW, cellular, satellite, virtual
applications, etc...

...Allows users to access **XML** data inspite of input/output restrictions,
by providing an intuitive method for interacting with the **XML** data
and also allows users to customize **interface** according to his/her
preference...

...The figure shows a detailed overview of the customizable **interface**
generation system...

... **XML document** (410

Title Terms: **INTERFACE** ;

International Patent Class (Main): **G06F-015/00**

Manual Codes (EPI/S-X): **T01-J12B** ...

... **T01-N03A1** ...

... **T01-S03**

32/3,K/66 (Item 66 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014835190 **Image available**
WPI Acc No: 2002-655896/200270
Related WPI Acc No: 2003-567643
XRPX Acc No: N02-518366

Web-based content information exchange system involves mapping
content definition field of retrieved content which is classified using
XML rules, with field from collaboration sites
Patent Assignee: LENTINI R P (LENT-I); RAO G P (RAOG-I); THIES J N (THIE-I)
; THIRUMALE M (THIR-I)

Inventor: LENTINI R P; RAO G P; THIES J N; THIRUMALE M
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020091835	A1	20020711	US 2000254351	P	20001205	200270 B
			US 2000254527	P	20001205	
			US 200116689	A	20011205	

Priority Applications (No Type Date): US 200116689 A 20011205; US
2000254351 P 20001205; US 2000254527 P 20001205

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020091835	A1	23	G06F-015/16	Provisional application US 2000254351

Provisional application US 2000254527

Web-based content information exchange system involves mapping
content definition field of retrieved content which is classified using
XML rules, with field from collaboration sites

Abstract (Basic):

... substitute HTTP session which is initiated instead of HTTP
session from user. The content is converted into document object
model and classified according to XML rules. Another search engine
maps content definition fields of the classified content with content
definition fields from collaborating sites.
... For exchanging collaborative information from various related
content sources using Internet.

International Patent Class (Main): G06F-015/16
Manual Codes (EPI/S-X): T01-N02A3C ...

... T01-N03A2 ...

... T01-N03B2

RELATED
DOC.
BENEFIT



US 20020091835A1

(19) **United States**(12) **Patent Application Publication**

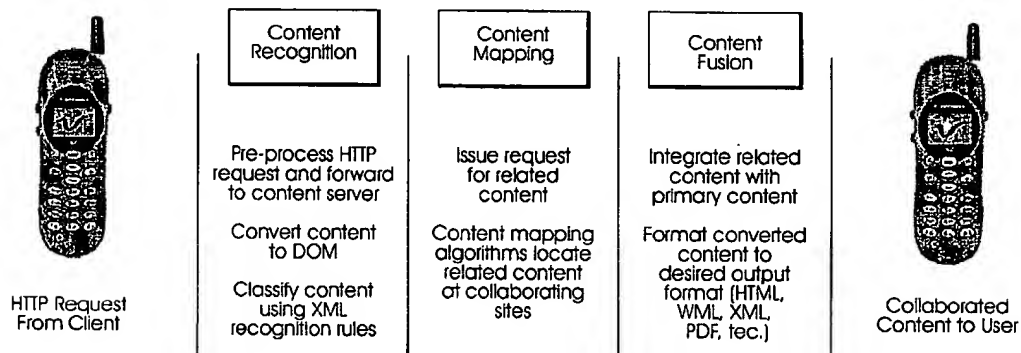
Lentini et al.

(10) **Pub. No.: US 2002/0091835 A1**(43) **Pub. Date:****Jul. 11, 2002**(54) **SYSTEM AND METHOD FOR INTERNET
CONTENT COLLABORATION**(76) **Inventors:** Russell P. Lentini, San Jose, CA (US);
Goutham P. Rao, San Jose, CA (US);
Jon N. Thies, San Jose, CA (US);
Murli Thirumale, San Jose, CA (US)

Correspondence Address:

STRADLING YOCCA CARLSON & RAUTH
IP Department
660 Newport Center Drive, Suite 1600
P.O. Box 7680
Newport Beach, CA 92660-6441 (US)(21) **Appl. No.:** 10/016,689(22) **Filed:** Dec. 5, 2001**Related U.S. Application Data**(63) Non-provisional of provisional application No.
60/254,351, filed on Dec. 5, 2000. Non-provisional of
provisional application No. 60/254,527, filed on Dec.
5, 2000.**Publication Classification**(51) **Int. Cl.⁷** G06F 15/16(52) **U.S. Cl.** 709/227(57) **ABSTRACT**

A system for collaborative exchange of Web based content information between and among disparate and unrelated content sources includes a content server, and a server appliance, electronically disposed between the content server and a network which terminates HTTP sessions directed to the content server and initiates a HTTP session with the content server as a proxy. A content collaboration engine, hosted on the server appliance, suitably includes a content recognition engine which receives content from the server, converts received content to DOM, and classifies content in accordance with XML recognition rules. A content mapping engine extracts content definition fields from classified content and requests related content from collaborating sites, the requested content having content definition fields including values substantially the same as the extracted content definition fields. A content category structure defines the format for categorizing all content sources collaborating in the exchange of content within a consortium. A request for information protocol defines a format for identifying valid content fields a content provider can be queried against in order to identify and recover content from a specific category categorized by the content category structure definition. The content category structure also identifies members of the consortium against which queries may be directed.



32/3,K/69 (Item 69 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014706865 **Image available**
WPI Acc No: 2002-527569/200256
XRPX Acc No: N02-417617

Associating document objects with devices by providing footnote, index and link summary with plug-in

Patent Assignee: VALORA WIRELESS INC (VALO-N); GOODISMAN A A (GOOD-I);
SERKES S E (SERK-I)

Inventor: GOODISMAN A A; SERKES S E

Number of Countries: 099 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200241160	A1	20020523	WO 2001US43263	A	20011119	200256 B
US 20020069223	A1	20020606	US 2000249498	A	20001117	200256
			US 2001970202	A	20011003	
US 20020083093	A1	20020627	US 2000249498	A	20001117	200256
			US 2001970202	A	20011003	
			US 2001988838	A	20011119	
AU 200217780	A	20020527	AU 200217780	A	20011119	200261

Priority Applications (No Type Date): US 2001970202 A 20011003; US
2000249498 P 20001117; US 2001988838 A 20011119

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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WO 200241160	A1	E 40	G06F-015/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA
ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

US 20020069223	A1		G06F-015/00	Provisional application US 2000249498
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US 20020083093	A1		G06F-015/00	Provisional application US 2000249498
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CIP of application US 2001970202

AU 200217780	A		G06F-015/00	Based on patent WO 200241160
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Associating document objects with devices by providing footnote, index and link summary with plug-in

Abstract (Basic):

... data from the time of day, location, user profile, security clearance, job function, job description, **document** type, **document** location, application executing on the device and user identity. A selectable **link** is generated and the association is encoded, a hypertext **link** is generated, and association features are e.g. anchor **links**, call-outs, footnotes, cursor hovers etc. The **document** format is HTML, WML, **XML**, PDF etc. and the association protocol is HTTP, FTP, gopher etc.

... 1) A system for associating objects in a **document** on a device
...

...2) A method of **modifying** a **document**
...

...Method is for enhancing **network** connectivity between data and **related**

TWO
RELATED
DOCS.
BE-5ATH

information and services...

...The figure shows a link engine

...Title Terms: DOCUMENT ;

International Patent Class (Main): G06F-015/00

International Patent Class (Additional): G06F-017/21 ...

... G06F-017/24

Manual Codes (EPI/S-X): T01-J05B1 ...

... T01-N01D2 ...

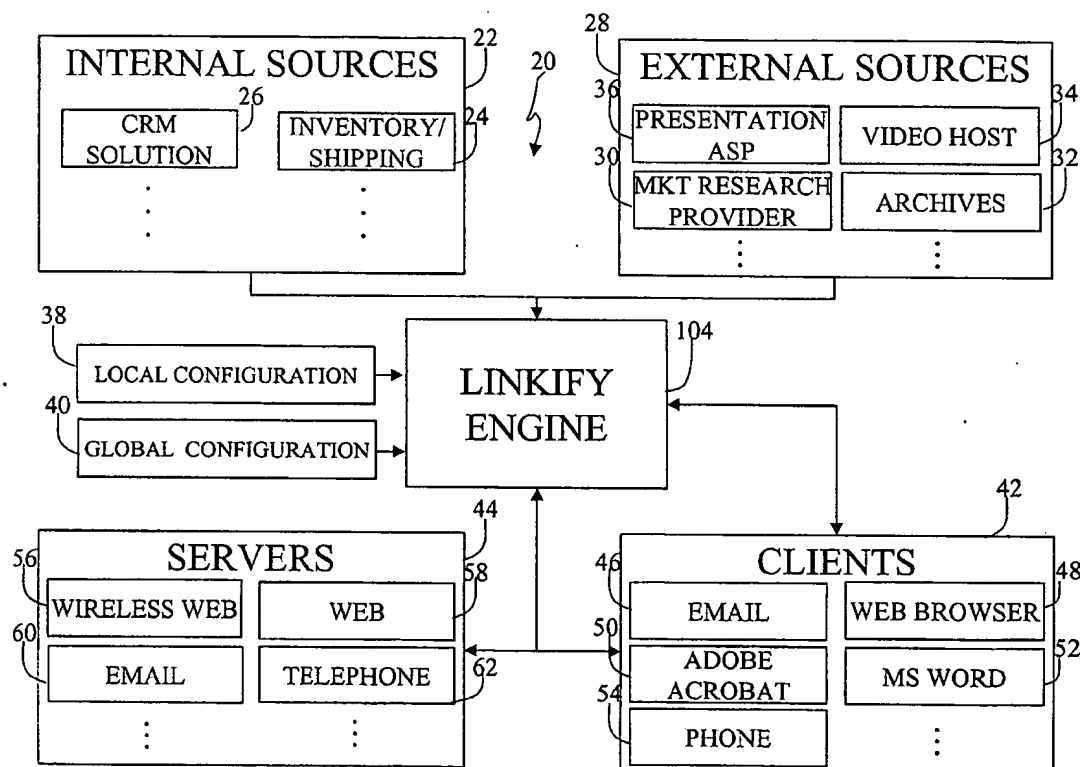
... T01-N03B2



US 20020083093A1

(19) **United States**(12) **Patent Application Publication**
Goodisman et al.(10) **Pub. No.: US 2002/0083093 A1**(43) **Pub. Date: Jun. 27, 2002**(54) **METHODS AND SYSTEMS TO LINK AND
MODIFY DATA****Publication Classification**(51) **Int. Cl.⁷** **G06F 15/00; G06F 17/21;
G06F 17/24**
(52) **U.S. Cl.** **707/511; 707/531; 707/517**(76) **Inventors:** **Aaron A. Goodisman, Watertown, MA**
(US); Sandra E. Serkes, Watertown,
MA (US)**Correspondence Address:**
FOLEY, HOAG & ELIOT, LLP
PATENT GROUP
ONE POST OFFICE SQUARE
BOSTON, MA 02109 (US)(57) **ABSTRACT**

A method and system to create dynamic associations or links between objects. In one embodiment, the methods and systems can utilize the links to modify a document having at least one object, where based on the association or link, an object in a document can be replaced with an abbreviated form of the object. A switch, button, or other capability to toggle can allow a selection and/or display of the abbreviated document and the unabbreviated version. In an embodiment, the methods and systems can be used to provide a selectable, pre-configured response in a document.

(21) **Appl. No.:** **09/988,838**(22) **Filed:** **Nov. 19, 2001****Related U.S. Application Data**(63) **Continuation-in-part of application No. 09/970,202,**
filed on Oct. 3, 2001. Non-provisional of provisional
application No. 60/249,498, filed on Nov. 17, 2000.



US 20020069223A1

(19) **United States**(12) **Patent Application Publication**
Goodisman et al.(10) Pub. No.: **US 2002/0069223 A1**(43) Pub. Date: **Jun. 6, 2002**(54) **METHODS AND SYSTEMS TO LINK DATA**

(52) U.S. Cl. 707/513

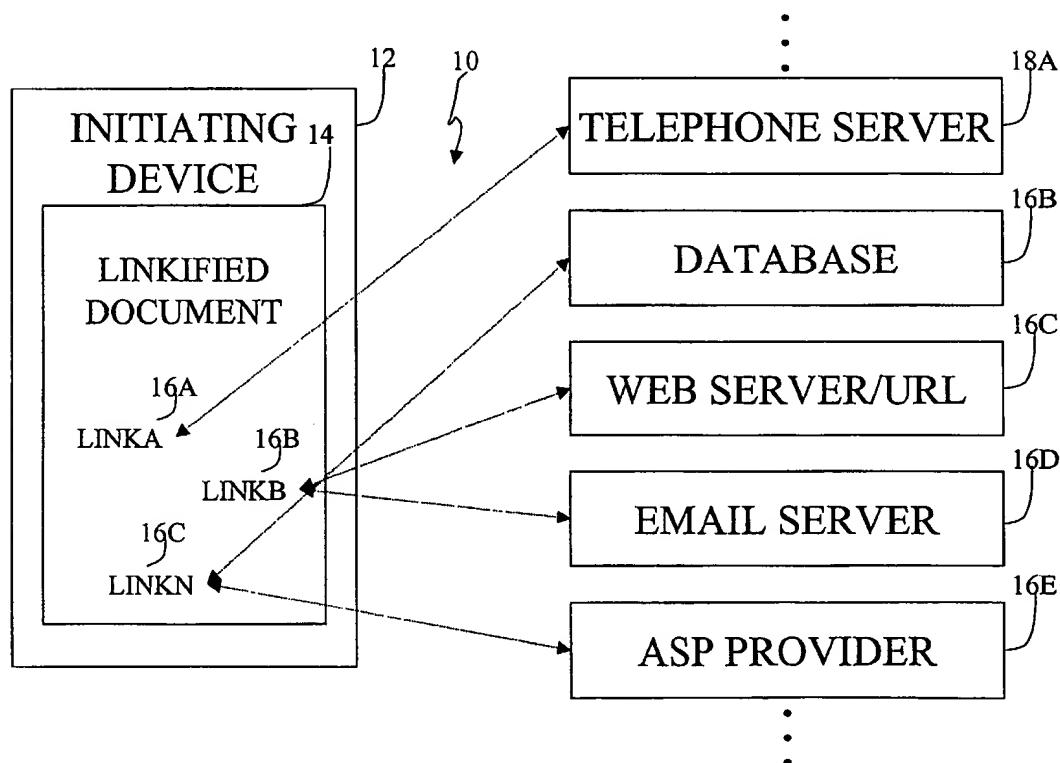
(76) Inventors: **Aaron A. Goodisman, Watertown, MA (US); Sandra E. Serkes, Watertown, MA (US)**(57) **ABSTRACT**

Correspondence Address:
FOLEY, HOAG & ELIOT, LLP
PATENT GROUP
ONE POST OFFICE SQUARE
BOSTON, MA 02109 (US)

A method and system to create dynamic associations or links between objects. The associations or links can be created by a linkify engine that creates the links by processing a document. The linkify engine can maintain and/or access at least one database or other memory component capable of storing data from which the associations can be formed. The linkify engine can also utilize configuration data to assist in determining associations. Objects in the document that can be linked by the linkify engine can include a word, group of words, number or group of numbers, image, icon, picture, or other object in a document. The document objects can be associated or linked to document objects in other documents, or to applications, images, icons, pictures, or other textual and non-textual objects that may not be associated with a document. In one embodiment, the association between objects can be represented as a hypertext link. Upon link activation, data from the associated objects can be retrieved and/or a process can be activated.

(21) Appl. No.: **09/970,202**(22) Filed: **Oct. 3, 2001****Related U.S. Application Data**

(63) Non-provisional of provisional application No. 60/249,498, filed on Nov. 17, 2000.

Publication Classification(51) Int. Cl.⁷ **G06F 15/00**

32/3,K/77 (Item 77 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014335646 **Image available**
WPI Acc No: 2002-156349/200221
XRPX Acc No: N02-118964

Information retrieving system used in Internet, has translator module
which includes several content translators to translate programs
written in preset language into common virtual machine language

Patent Assignee: RES IN MOTION LTD (REIN-N); YACH D (YACH-I)

Inventor: YACH D

Number of Countries: 028 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1107131	A2	20010613	EP 2000126626	A	20001204	200221 B
CA 2327222	A1	20010603	CA 2327222	A	20001201	200221
US 20020112078	A1	20020815	US 99169032	A	19991203	200256
			US 2000728543	A	20001201	

Priority Applications (No Type Date): US 99169032 P 19991203; US 2000728543
A 20001201

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1107131	A2	E	16	G06F-017/30	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

CA 2327222	A1	E		G06F-017/30	
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US 20020112078	A1			G06F-015/16	Provisional application US 99169032
----------------	----	--	--	-------------	-------------------------------------

Information retrieving system used in Internet, has translator module
which includes several content translators to translate programs
written in preset language into common virtual machine language

Abstract (Basic):

... A translation module including several content translators ,
is connected to a host device which is connected to several information
sources. The content translators translate the content types of
programs written in HTML, HDML, XML and WML into common virtual
machine language programs.

... b) Document browsing system...

...c) Document browsing method...

...Since the translator translates the content type into virtual
machine language program, minimum amount of memory is required, size
and complexity are reduced and translations are improved without
affecting the virtual machine. Since the content types in mark-up
languages is converted into executable programs of Java , the
complex tasks are performed by the developer in less space, for
animation, advertising and...

...Title Terms: TRANSLATION ;

International Patent Class (Main): G06F-015/16 ...

... G06F-017/30

Manual Codes (EPI/S-X): T01-F07 ...

... T01-J14 ...

... T01-M06A1A ...

RELATED
DOC.
BENEATH

... T01-N03B2

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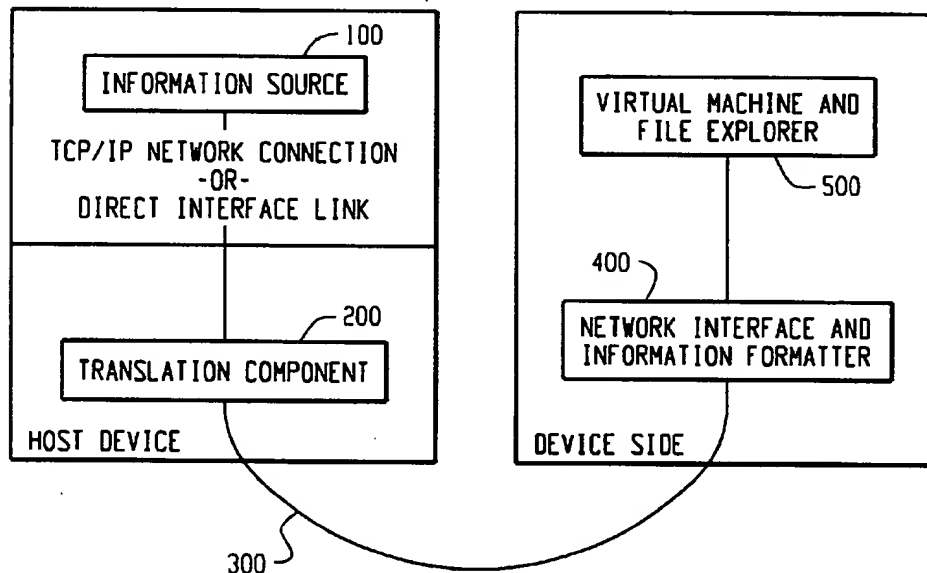
US 20020112078A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0112078 A1**
Yach (43) **Pub. Date: Aug. 15, 2002**(54) **VIRTUAL MACHINE WEB BROWSER****Publication Classification**(76) **Inventor: David Yach, Waterloo (CA)**(51) **Int. Cl.⁷ G06F 15/16**(52) **U.S. Cl. 709/246; 709/219**

Correspondence Address:
David B. Cochran
Jones, Day, Reavis & Pogue
North Point
901 Lakeside Avenue
Cleveland, OH 44114 (US)

(21) **Appl. No.: 09/728,543**(22) **Filed: Dec. 1, 2000****Related U.S. Application Data**(60) **Provisional application No. 60/169,032, filed on Dec. 3, 1999.**(57) **ABSTRACT**

A system and method of browsing documents is provided that does not require a traditional document browsing application at a client device. In order to achieve browsing without a browsing application, the client device first transmits an information request to a host system. The host system retrieves the requested information from one or more information sources that store the information. A translation component receives the information from the host system and translates the information from a plurality of content types into a virtual machine language program. The virtual machine language program is then transmitted to the client device, which executes the virtual machine language program in order to display and interact with the information.



32/3,K/78 (Item 78 from file: 350)0
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014318190 **Image available**
WPI Acc No: 2002-138892/200218
XRPX Acc No: N02-104638

Document acquisition request servicing method e.g. for web pages,
involves dynamically generating content blocks and storing copy of blocks
in memory, in response to request for document
Patent Assignee: AGRAWAL A (AGRA-I); LOWENTHAL L B (LOWE-I); VENKETARAMANI
R (VENK-I)

Inventor: AGRAWAL A; LOWENTHAL L B; VENKETARAMANI R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020004813	A1	20020110	US 2000187925	P	20000308	200218 B
			US 2001800115	A	20010305	

Priority Applications (No Type Date): US 2000187925 P 20000308; US
2001800115 A 20010305

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020004813	A1	17	G06F-015/16	Provisional application	US 2000187925

Document acquisition request servicing method e.g. for web pages,
involves dynamically generating content blocks and storing copy of blocks
in memory, in response to request for document

...Abstract (Basic): NOVELTY - A request for a **document** that includes a
script defining several blocks, is received. At least one block that
includes a reference to a data source, and a code that is **adapted** to
access a data source, and to format the accessed data, is retrieved
from a...

...a) Computer system for servicing a request for a **document** ;
(...

...b) Machine-readable medium storing data representing instructions for
servicing a request for a **document**
...

...USE - For servicing a request for **documents** such as **SQL** , **XSQL**, **XML**
, **HTML** or **DHTML documents** , web pages published in e-commerce web
sites or multi-media web sites and portals

Title Terms: **DOCUMENT** ;

International Patent Class (Main): **G06F-015/16**

Manual Codes (EPI/S-X): **T01-H03A** ...

... **T01-N01D2** ...

... **T01-S03**

32/3,K/81 (Item 81 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014228158 **Image available**
WPI Acc No: 2002-048856/200206
Related WPI Acc No: 2001-570797
XRPX Acc No: N02-036172

Data delivery method for legacy computer system used in e-commerce application, involves modifying applications of legacy system and running modified applications so that data is output in extensive mark-up language format

Patent Assignee: ELECTRONIC DATA SYSTEMS CORP (ELDA-N)

Inventor: BALLANTYNE A M; HINES L M; SMITH M K

Number of Countries: 101 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20010044811	A1	20011122	US 2000522277	A	20000309	200206 B
			US 2001840727	A	20010423	
WO 200286706	A1	20021031	WO 2002US12617	A	20020423	200272
EP 1381945	A1	20040121	EP 2002726784	A	20020423	200410
			WO 2002US12617	A	20020423	
AU 2002257192	A1	20021105	AU 2002257192	A	20020423	200433
MX 2003009712	A1	20040201	WO 2002US12617	A	20020423	200473
			MX 20039712	A	20031023	
ZA 200308238	A	20041124	ZA 20038238	A	20031022	200481
BR 200209092	A	20050209	BR 20029092	A	20020423	200516
			WO 2002US12617	A	20020423	

Priority Applications (No Type Date): US 2001840727 A 20010423; US 2000522277 A 20000309

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20010044811	A1		24	G06F-015/00	CIP of application US 2000522277
WO 200286706	A1	E		G06F-009/44	
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW					
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW					
EP 1381945	A1	E		G06F-009/44	Based on patent WO 200286706
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
AU 2002257192	A1			G06F-009/44	Based on patent WO 200286706
MX 2003009712	A1			G06F-009/44	Based on patent WO 200286706
ZA 200308238	A		77	G06F-000/00	
BR 200209092	A			G06F-009/44	Based on patent WO 200286706

Data delivery method for legacy computer system used in e-commerce application, involves modifying applications of legacy system and running modified applications so that data is output in extensive mark-up language format

Abstract (Basic):

... model of the legacy computer system application is generated.
The model is mapped to an **extensible mark up language (XML) schema**. The applications of the legacy system are automatically **modified** and are run so that data written in **document object model** is output in **XML** format.

RELATED
Doc.
BENEFIT

... Direct generation of **XML** formatted data reduces friction in information **networks** , reduces cost of tracking information, reduces time associated with obtaining business intelligence. Customers can automatically...

...The figure shows the flowchart of the generation of **modified** legacy program applications to output **XML** data...

...Title Terms: **MODIFIED** ;

International Patent Class (Main): **G06F-000/00** ...

... **G06F-009/44** ...

... **G06F-015/00**

Manual Codes (EPI/S-X): **T01-F05G3** ...

... **T01-J11C1** ...

... **T01-N01A2**



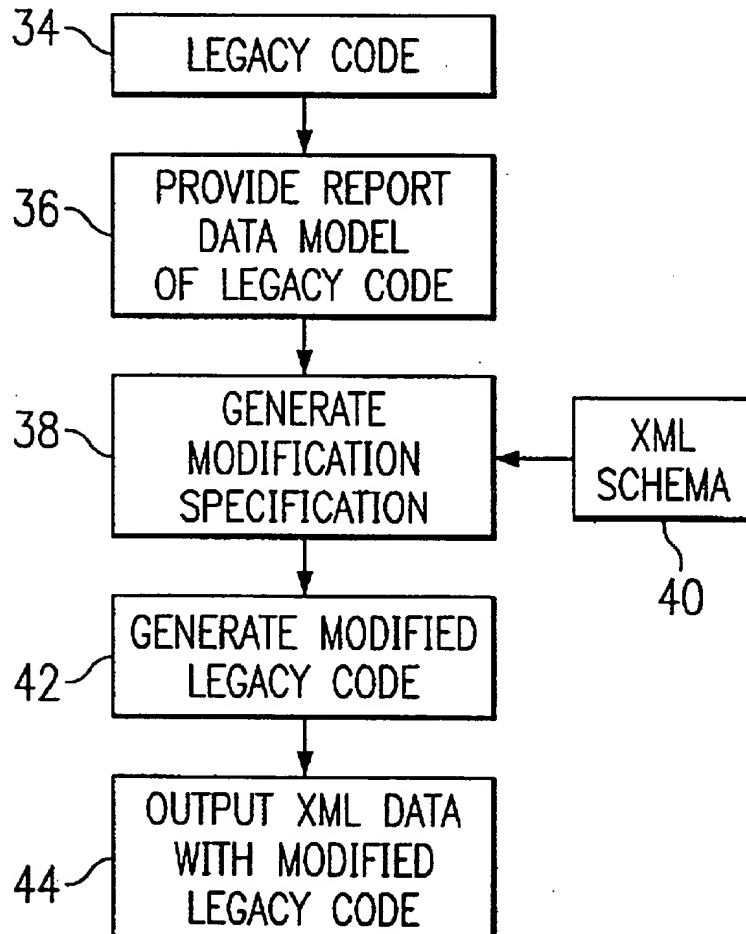
US 20010044811A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2001/0044811 A1**
Ballantyne et al. (43) **Pub. Date: Nov. 22, 2001**(54) **METHOD AND SYSTEM FOR REPORTING
XML DATA BASED ON PRECOMPUTED
CONTEXT AND A DOCUMENT OBJECT
MODEL****Related U.S. Application Data**(63) Continuation-in-part of application No. 09/522,277,
filed on Mar. 9, 2000.**Publication Classification**(75) **Inventors:** Alando M. Ballantyne, Austin, TX
(US); Michael K. Smith, Austin, TX
(US); Larry M. Hines, Austin, TX
(US)(51) **Int. Cl.⁷** **G06F 15/00**
(52) **U.S. Cl.** **707/513**(57) **ABSTRACT**

A method and system for modifying program applications of a legacy computer system to directly output data as XML using a DOM instance, models the legacy computer system, maps the model to an XML schema and automatically modifies one or more applications to directly output XML formatted data from an internally constructed DOM instance in cooperation with a writer engine. The writer engine allows for an arbitrary number of contexts to be simultaneously active and builds a complete DOM instance by using the multiple contexts to buffer output data. The writer engine directly loads XML schema information to construct and output DOM instances in accordance with the schema and subject to further transformation by XSLT stylesheets.

Correspondence Address:

Robert W. Holland
Baker Botts L.L.P.
Suite 600
2001 Ross Avenue
Dallas, TX 75201-2980 (US)

(73) **Assignee: Electronic Data Systems Corporation**(21) **Appl. No.: 09/840,727**(22) **Filed: Apr. 23, 2001**

32/3,K/83 (Item 83 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014088977 **Image available**
WPI Acc No: 2001-573191/200165
XRPX Acc No: N01-427382

Web page serving method involves processing file into extensible
markup language code which is translated into document object
model representation with one or more custom tags

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: CLAUSSEN C S; CONNER M H; MCCLAIN M D; ZUMBRUNNEN B C
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2359157	A	20010815	GB 200022534	A	20000914	200165 B

Priority Applications (No Type Date): US 99409598 A 19990930
Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
GB 2359157	A	54	G06F-017/30	

Web page serving method involves processing file into extensible
markup language code which is translated into document object
model representation with one or more custom tags

Abstract (Basic):

... A given file is parsed into extensible markup language (XML) compliant code, which is translated into a document object model (DOM) representation comprising one or more custom tags. The DOM representation is processed...

... page. Economical to implement in a run time, as the languages are easily defined in Java byte code...

...Title Terms: TRANSLATION ;

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-009/45 ...

... G06F-017/21

Manual Codes (EPI/S-X): T01-F05A ...

... T01-J05B ...

... T01-J11A ...

... T01-J11C1 ...

... T01-S01C ...

... T01-S03

FILED IN US -
HAS NOT
ISSUED IN
US

REKATED
Doc.
BENEFIT

(12) UK Patent Application (19) GB (11) 2 359 157 (13) A

(43) Date of A Publication 15.08.2001

(21) Application No 0022534.2

(22) Date of Filing 14.09.2000

(30) Priority Data

(31) 09409598

(32) 30.09.1999

(33) US

(71) Applicant(s)

International Business Machines Corporation
(Incorporated in USA - New York)
Armonk, New York 10504, United States of America

(72) Inventor(s)

Christopher Shane Claussen
Michael Haden Conner
Matthew Dale McClain
Benjamin Charles Zumbrennen

(74) Agent and/or Address for Service

IBM United Kingdom Limited
Intellectual Property Department, Hursley Park,
WINCHESTER, Hampshire, SO21 2JN,
United Kingdom

(51) INT CL⁷

G06F 17/30 9/45 17/21

(52) UK CL (Edition S)

G4A APL AUBB

(56) Documents Cited

WO 00/45304 A1

http://www.chesco.com/~randzman/CFDOCS/moredocs/adv_cf_devel.pdf, Adv ColdFusion Development, 07/9/00 <http://www.redbooks.ibm.com/pubs/pdfs/redbooks/sg245479.pdf> The XML Files..., 27/03/2000 <http://java.sun.com/products/jsp/techinfo.html>, JavaServer pages specification 1.0, 27/9/1999 http://www.cs.nyu.edu/others/research/mu_spin/muspin99.pdf MU-SPIN 9th Ann. Users Conf. 27/09/1999 <http://zdnet.com/filters/printerfriendly/0,6061,409493-2,00.html>, Lutris' server divides... 11/07/1999

(58) Field of Search

UK CL (Edition S) G4A APL AUBB

INT CL⁷ G06F 9/30 9/44 9/45 17/21 17/30

Online: WPI, EPODOC, PAJ, COMPUTER, INSPEC, IEL and selected internet sites

(54) Abstract Title

Extensible Markup Language (XML) server pages having custom Document Object Model (DOM) tags

(57) A method for serving a web page uses eXtensible Markup Language (XML) server pages. The first time a web page is accessed, a given flat file is parsed into an XML Document Object Model (DOM) 204, 206, and required tag libraries are loaded. The DOM tree is then traversed, preferably in a depth first, inside-out manner to locate custom tags. Upon locating a custom tag a handler is invoked that converts the custom tag into a given representation whereby if the tag is registered as a Java object, the object is loaded. A process method is then called on the object, passing the custom tags' tree node. The Java object then examines the custom tag and replaces it with an object, e.g. script code. Alternatively, if the tag is registered as an XSL stylesheet, the stylesheet is loaded and passed, together with the DOM, to an XSL processor. The processor applies the template to the custom tag and replaces it with given script code. Once all custom tags are reduced to HTML and script code, the DOM is compiled into a Java servlet 210 to service the client request. Furthermore, the custom tag(s) and data identifying their associated handler(s) may be registered prior to processing the flat file.

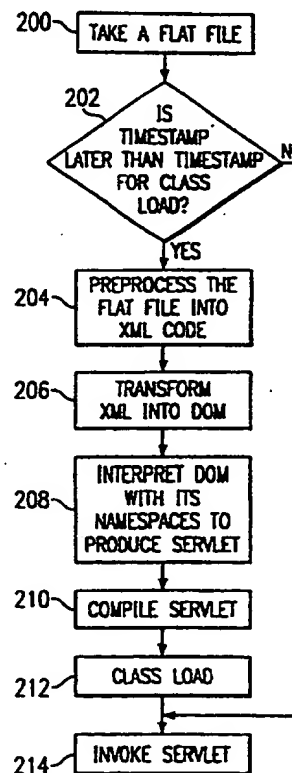


FIG. 2

GB 2 359 157 A

32/3,K/84 (Item 84 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014013872 **Image available**
WPI Acc No: 2001-498086/200155
XRPX Acc No: N01-369136

**Automatic graphical user interface generation, for managing multiple
networked computer systems as one computer system, by means of a command
syntax**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC); AUDLEMAN K F (AUDL-I)
; MCBRIDE K M (MCBR-I); PATTERSON B J (PATT-I); SPAIN K A (SPAI-I)

Inventor: AUDLEMAN K F; MCBRIDE K M; PATTERSON B J; SPAIN K A

Number of Countries: 027 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1077405	A2	20010221	EP 2000306865	A	20000810	200155 B
CA 2313556	A1	20010217	CA 2313556	A	20000706	200155
US 20020196281	A1	20021226	US 99375602	A	19990817	200304
US 6806890	B2	20041019	US 99375602	A	19990817	200469

Priority Applications (No Type Date): US 99375602 A 19990817

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1077405	A2	E	47	G06F-009/44	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

CA 2313556	A1	E		G06F-017/60	
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US 20020196281	A1			G09G-005/00	
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US 6806890	B2			G09G-005/00	
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**Automatic graphical user interface generation, for managing multiple
networked computer systems as one computer system, by means of a command
syntax**

Abstract (Basic):

... A graphical user **interface** is automatically generated from a
command syntax comprising an **extensible markup language (XML)**
document file, an **XML schema** file, and a text description file.
This collection of **XML** files is maintained on a server and downloaded
to a client as required.

... For managing multiple **networked** computer systems as one
computer system...

...Does not require separate operations console or different client
interfaces for each computer system comprising a **network** .

...The figure shows a flowchart of **XML** file processing

...Title Terms: **INTERFACE** ;

International Patent Class (Main): **G06F-009/44** ...

... **G06F-017/60**

International Patent Class (Additional): **G06F-017/20**

Manual Codes (EPI/S-X): **T01-F05**

32/3,K/85 (Item 85 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013674794 **Image available**
WPI Acc No: 2001-159006/200116
XRPX Acc No: N01-115902

Extensible style language transformation in Internet , by determining proper XSL transformation based on client type and configuration, to enable application to access registry on proper transformation confirmation

Patent Assignee: SUN MICROSYSTEMS INC (SUNM)
Inventor: KUZNETSOV P; YALCINALP L U
Number of Countries: 093 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200073941	A2	20001207	WO 2000US14602	A	20000530	200116 B
AU 200055899	A	20001218	AU 200055899	A	20000530	200118
EP 1236129	A2	20020904	EP 2000941150	A	20000530	200266
			WO 2000US14602	A	20000530	
JP 2003524821	W	20030819	WO 2000US14602	A	20000530	200356
			JP 2001500988	A	20000530	

RELATED
DOC.
BENEATH

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KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO
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Extensible style language transformation in Internet , by determining proper XSL transformation based on client type and configuration, to enable application to access registry on proper transformation confirmation

Abstract (Basic):

... The set of **interfaces** are provided to create application object in registry and permitting developers to publish **XML document** in registry. A registry origin determines proper extensible style language (XSL) **transformation** based on type of the client and configuration. The **transformed XML document** is sent to the client, when proper **transformation** is confirmed.

... The **transformation** engine maintains **information** of **relationship** between each of the XSL stylesheets and any other element such as application, client and...

...a) XSL **document transformation** system...

...b) program for XSL **transformation** method...

...In **Internet** .

...

...The **transformation** registry service allows different clients
corresponding to applications to be configured, so that application can
...

...overtime. Therefore, applications can dynamically evolved to support new
and/or different client, configurations or **transformations** .

...The figure shows the flowchart for **transformation** registry service

...Title Terms: **TRANSFORM** ;

International Patent Class (Main): **G06F-017/21** ...

... **G06F-017/30**

International Patent Class (Additional): **G06F-012/00**

Manual Codes (EPI/S-X): **T01-J05B2B** ...

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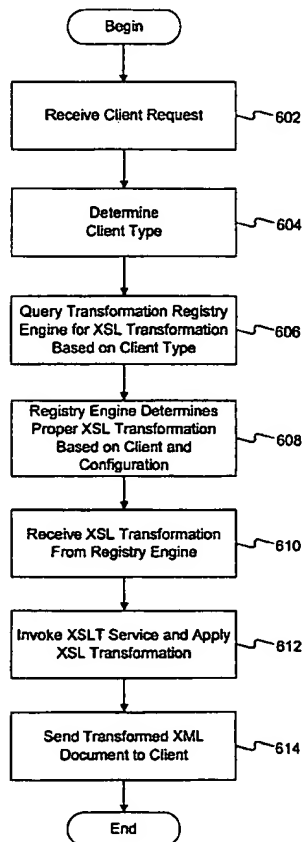
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[Continued on next page]

(54) Title: TRANSFORMATION REGISTRY SERVICE FOR CONTENT TRANSFORMATION



(57) Abstract: Methods and systems consistent with the present invention solve the inherent problems with existing XSL transformation systems by providing a transformation registry service that serves as a XSL transformation repository. The XSL transformation service enables XSL transformations in applications to deliver XML documents to various clients. Specifically, the transformation registry service maintains mappings for applications, clients, and client configurations. The client configurations are defined based on an application and XSL transformations. The client configurations also allow applications to apply or extend transformations. Each time a client requests a XML document from an application, the application may query the transformation registry service for an appropriate XSL transformation for the client and its configuration. The transformation may then be applied to the XML document and the transformed XML document may be delivered to the requesting client.

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013628272 **Image available**
WPI Acc No: 2001-112480/200112
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Commerce system for conducting transactions via Internet has series of point of sale terminals connected to central database with interconnected service providers

Patent Assignee: IND WIDE NETWORKS PTY LTD (INWI-N)

Inventor: HILSON D A

Number of Countries: 094 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200101300	A1	20010104	WO 2000AU730	A	20000628	200112 B
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Abstract (Basic):

... The Industry Wide Network IWN interconnects entities using **XML** messaging and CORBA (common object request broker) to communicate to/from the central database. An IWN engine consisting of message **conversion** engine, workflow repository, **data / object** store and a transaction processor serves as a switchboard. The **XML** engine interacts with peripheral applications i.e. merchant terminal, web frontend, eCommerce brokerage operation, a...

... The merchant engine has a point of sale terminal running via a browser (40) with **java** applets allowing terminal to connect to the IWN network. Data sent to IWN clearing house server, if not in **XML** format is forwarded to a **translator** and then queued in the workflow repository. A transaction processing engine sequences interactions using business...

International Patent Class (Main): **G06F-017/60**

Manual Codes (EPI/S-X): **T01-F07** ...

... **T01-H07C5E** ...

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... **T01-J05B4P** ...

... **T01-J11C1** ...

... **T01-S01B**

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WPI Acc No: 2000-315116/200027

XRPX Acc No: N00-236466

Parameterized XSL style sheets production by text transformation engine
and optimized with respect to limitations and preferences - includes
loading style sheets into memory while storing associated processing
instructions and applying resulting style sheets to XML document

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Number of Countries: 001 Number of Patents: 001

Patent Family:

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RD 423110	A	5	G06F-000/00	

Parameterized XSL style sheets production by text transformation engine
and optimized with respect to limitations and preferences...

...style sheets into memory while storing associated processing
instructions and applying resulting style sheets to XML document

...Abstract (Basic): NOVELTY - A Java XML parser processes input
documents and an XML processor parses XML documents and invokes
objects registered to processor specific tags, while the objects
implement either an elemental handler Java interface or a tag
handler interface . Transformation beans, implementing the
interfaces , register with the parser to process a specific set of
tags. The XSL style sheets applied to XML documents are capable of
converting one document object model to another. A style sheet is
loaded into memory before application to an XML document to yield a
result tree...

...USE - Modifying web content to accommodate device, browser and network
bandwidth limitations as well as user preferences...

...Title Terms: TRANSFORM ;

International Patent Class (Main): G06F-000/00

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